

PRODUCT IDENTIFICATION



Product Name: Ferric Chloride 30% Water Treatment Grade
CAS Number: 7705-08-0
Molecular Formula: Cl_3Fe
Molecular Weight: 162.20 g/mol
Grade: Technical Grade
Purity / Concentration: 30%
Synonyms: Not Available

PRODUCT OVERVIEW

Ferric Chloride 30% is a high-performance technical grade coagulant primarily utilized for effective water and wastewater treatment. This dark brown liquid solution is engineered to provide consistent chemical activity for industrial-scale purification and separation processes.

Grade Significance: Technical Grade indicates that this product is formulated for industrial and manufacturing applications where functional performance is required, rather than the high-purity standards demanded by pharmaceutical or food-grade processes.

CERTIFICATE OF ANALYSIS — TYPICAL VALUES

Certificate of Analysis data not available for this product.

PHYSICAL & CHEMICAL PROPERTIES

Appearance	Dark brown liquid	Form	Liquid
Boiling Point	280°C (pure)	Melting / Freezing Point	37°C (pure)
Specific Gravity	1.31	Solubility	Highly soluble in water
Molecular Formula	Cl_3Fe	Molecular Weight	162.20 g/mol

APPLICATIONS

- Municipal Water Treatment** — Used as a primary coagulant to remove suspended solids and impurities, ensuring clear and safe water output.
- Industrial Wastewater Management** — Helps in the precipitation of heavy metals and phosphates from industrial effluent streams before discharge.
- Electronics Manufacturing** — Acts as a reliable etchant for printed circuit boards and metal surfaces due to its corrosive chemical properties.
- Mining and Mineral Processing** — Utilized in the processing of ores and separation of minerals during extraction cycles.
- Laboratory Research** — Serves as a standard chemical reagent for various synthesis and analytical procedures requiring iron-based catalysts.

STORAGE & HANDLING

Due to its corrosive nature, Ferric Chloride must be stored in specialized, compatible containment systems to prevent structural damage to storage facilities. Proper storage is essential to manage the severe skin and eye hazards, ensuring that the chemical remains contained and away from incompatible materials that could trigger a dangerous reaction.

AVAILABLE PACKAGING

- 1 Quart
- 1 Gallon
- 5 Gallon
- 15 Gallon
- 55 Gallon
- 275 Gallon
- 330 Gallon

SAFETY SUMMARY (CROSS-REFERENCE TO SDS)

Signal Word: Danger



Hazard Statements:

- H290: May be corrosive to metals
- H302: Harmful if swallowed
- H314: Causes severe skin burns and eye damage
- H315: Causes skin irritation
- H318: Causes serious eye damage
- H412: Harmful to aquatic life with long lasting effects

Emergency Contact: CHEMTEL - 800-255-3924 (24 Hours/Day, 7 Days/Week)

For complete safety information, refer to the Safety Data Sheet (SDS) for this product.

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